

Air March 4th
ms.

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

March 1st 1889.

Dear Dr. Engelman,

I enclose
a little Euphorbia come
from ~~Germany~~. It looks rather
odd & I do not know what to
do with it — an annual with
gymnosperm-like seed.

Will have my conifer specimens
ready to send you very soon.

Yours very truly

W. E. Watson
W

Dr. Gray still at New but just on the
point of starting for Italy with
his Joseph & Lady Hooker. He
thinking of getting back in October.



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec March 14
Chas — 14 x 20

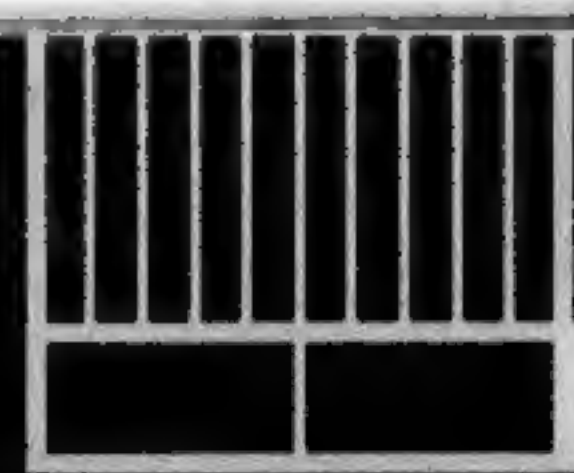
HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

March 10th 1889

Dear Dr. Engelman

I send in 3 packages
a lot of coniferous material
— though it is not much after
all. The small box is wholly from
Cascades in the Blue Mts. of
Oregon, the rest from diverse
localities. The pinus are
all straight enough. I saw
no *P. flexilis*, and not much
P. albicaulis, & send the only
cone that I found. Among
the Taxus is one that troubles
me — a fine tree at the head
of the Clear Lake. The finest
of the Abies is new to me



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Nov 14 1880

HERBARIUM OF HARVARD UNIVERSITY

BOTANIC GARDEN, CAMBRIDGE, MASS.

March 10 1880

Dear Dr. Engelman

I am in 3 packages

a lot of *Coniferae* and
- though it is not much after
all the small box is added for
conifers in the New York of

paper, the rest from given

localities. The *Pinus* are

all *montana* enough. I am

no *P. flexilis*, and not much

P. strobus, and the only

one that I found. Among

the *Taxus* is one that troubles

me - a fine tree on the bank

of the Clear Lake. The fine

of the *Abies* is one to me



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Mar 10, '81

with broad flat foliage,
dark ^{glossy} green above, glaucous
below, & not east of the
mountains between Idaho
& Montana.

I must ask you to return
all the material. If there
is anything you would like,
just make note of it. It was
for most of the conifers a barren
year, & it was difficult to find
anything but fragments of old
cones.

I fancy that my notes upon
the Distribution of these trees
will be of some interest.

Yours in haste

F. V. Coville



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

1851
 with good for the
 back of the
 leaves, & not over of the
 arrangement between the
 leaves.

I am not sure
 of the arrangement of the
 is something you would like
 just another order of it. It was
 for most of the country a good
 thing & it was difficult to find
 anything but fragments of the
 same.

I have not seen the
 the distribution of the
 with a of some interest.
 shown in the
 yellow leaves

MISSOURI BOTANICAL GARDEN
 GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm copyright reserved



MISSOURI
 BOTANICAL
 GARDEN

Recd May 6
Gen. P.C. May 7

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

May 29 1884

Dear Dr. Engelman,

I stopped
in the middle of your letter
this morning, and now answer
the rest of it, enclosing Prof.
Cribbs' letter to Dr. Gray of 25 years
ago and some of his specimens,
as also leaves collected by Dr. Gray
himself in 1841. There is another
letter here of Cribbs in reply to Dr.
Gray's reference of his species to *T.
Canadensis*, & insisting upon its
distinctness from what he understood
to be *Canadensis*.

Am very sorry to hear of
your illness & trust it will
be of short duration. Nothing
recent from Dr. Gray.

Prof. Gooden has suffered



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved

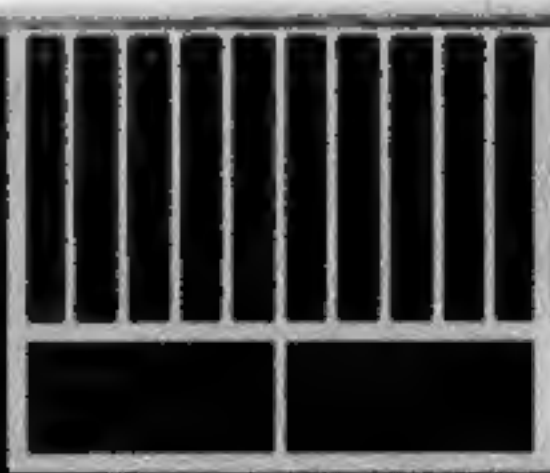


MISSOURI
BOTANICAL
GARDEN

HERBARIUM OF HARVARD UNIVERSITY
BOTANIC GARDEN, CAMBRIDGE, MASS.

1884

From the *Psychotria*
in the *Psychotria* of *Psychotria*
this morning, and was examined
the rest of it, including *Psychotria*
Gibber, better to be found of *Psychotria*
up and down of his specimens,
as also leaves attached to *Psychotria*
himself in 1841. There is another
better one of *Psychotria* in *Psychotria* to be.
Gibber's specimens of his species to be.
Psychotria, a minute specimen of
distinction from that in *Psychotria*
the *Psychotria*.
One very young to be of
some *Psychotria* to be in *Psychotria*
of *Psychotria* *Psychotria*. *Psychotria*
from the *Psychotria*.
Psychotria *Psychotria* in *Psychotria*



0 1 2 3 4 5 6 7 8 9 10
cm

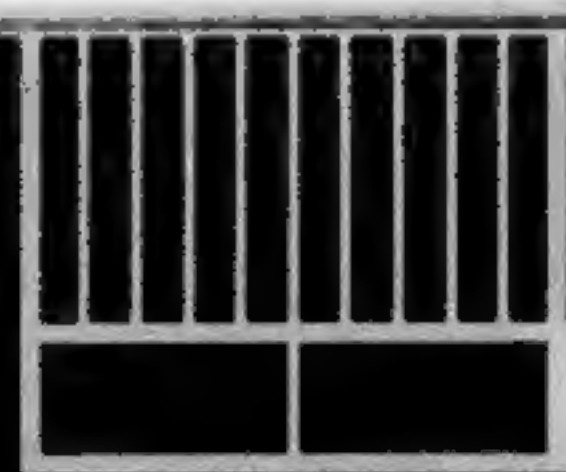
copyright reserved



MISSOURI
BOTANICAL
GARDEN

and affliction in the loss of his
youngest boy, Eddy, by diphtheria.
Mrs. Goodale & the older boy
have also both been down
with the same disease,
but happily both are now
recovering and are con-
sidered out of danger.
The prospect was very dark
for a time.

Yours very truly
Frederic Goodale



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved

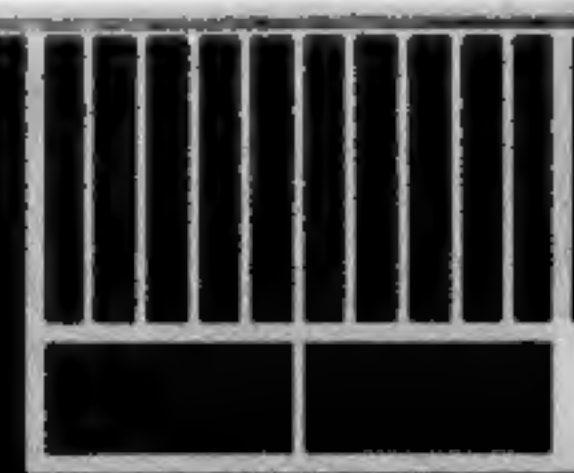


MISSOURI
BOTANICAL
GARDEN

and opposite in the line of his
youngest leaf, 1875, of 1876
from Colorado & the other leaf
from the same place
with the same leaves
one happily both are now
recovered and are now
giving out of growth.
The present one and both
are a fine

Handwritten signature

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec June 30
Cambridge

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

June 27th 1884

Dear Dr. Engelman,

Thanks for
your seedings. We have nothing
like the *Campanula* ~~or~~
dicentra. The *Silene* is so
very close to *S. Palmeri* that
I do not see well how to
distinguish it, with this
material. The seed appears to
be closely tuberculate in the
same way, and the more
northern habitat does not
necessarily prevent their being
the same.

I see that the *Psoralea* was
raised in the garden here from
the seeds of Wright's specimens (874),
and noted as having a yellow color.



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



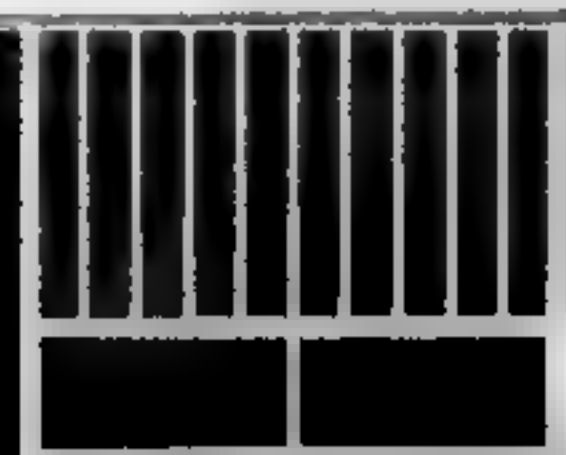
MISSOURI
BOTANICAL
GARDEN

flowers. Of the two original specimens one has reddish smoothish seeds, the other blackish & muriculate, as noted by Wright — while the cultivated specimen has the seeds of the last.

Do you know Rev. F. A. Brehm of St. Helena, Nebraska? He discovers a new species every other day, but luckily he does not publish them.

Yours Very Truly
Brewer Watson

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec July 4
Aug 6

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

July 1st 1880.

Dear Dr. Engelman,

Dr. Gray's
Brevimolia (196) is referred
to *B. cuneata*.

Your leaves are not very
different from those of
specimens of what Dr. Gray
calls *B. lyricalis*, which
was collected by Wright in
far west or Western Texas.
The reticulation is the same.
I saw nothing of it from
further west.

I thought that leafy to Bot. Calif.
was nearly perfect. I do not believe
such a thing is possible.

Yours very truly

Asa Gray



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec July 18 Empire
Aug 31 Holbrook

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

July 11th 1880

Dear Dr. Engelman,

Wright's Rhus
from former must be R. virens,
though the leaves are pale and
sometimes 3-foliate, just as
they are in Texan specimens.
It is certainly the same as
Rothrock's 645 from Sanvita Valley.
I enclose leaves.

There is no *Bumelia ferox*
in the herbarium. Gregg's appears to
be *B. cuneata*, as far as I can see
- of which species we have plenty.

Dr. Gray is back at home, busy
& enjoying himself. He does not
much care to come back this
fall. Goodale will go over in
September.

Yours very truly
Frederick Watson

over



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

July 11 '91

What you call Abies grandis,
a well marked species which
on my notes I always designated
as the "flat-sprayed balsam" was met
(Aug. 23)
with first on the mountains between
Montana and Idaho (along the
boundary line), where it is common,
and it is the same (as you say)
that I collected in the Cascade
Mts. at the head of the Yakima,
and Cusick sends it from the
Blue Mts., where I also saw it.

The *A. subalpina* is through all
the same region & farther north

Parish sends a specimen

Picea sitchensis from San Bernardino

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec Comptre Aug 13th
Ar ——— 15

BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS.

Aug. 1861

Dear Dr. Engelman

in original

Simon. now Campanula
Laryadoffiana was not
"asiatic", but rather North
American, from Greenland
& the Aleutian Islands —
possibly also from Eastern
Siberia, but we have no
Siberian specimens.

Dr. Engelmann, Ledebour, &c., seem
to have no hesitation in identi-
fying it with C. Schrenkianii, —
or rather in putting the two together
as varieties of what they call limicola.
We have pretty good sets of
specimens of the different
things, if they are different.



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Aug 7, '81
have not looked at them
since & for our my Ethel
report, when I adopted Hooker's
view and considered that
I had an all C. rhododifolia,
& uniflorum.

Letters this morning
from Dr. Gray say that
he has engaged passage
home for Oct. 27, as that
date is settled.

Mr. Bentham lost his wife
a short time ago - rather
a relief, however, than a
loss, according to Dr. Gray.

We have had a miserable
summer, combined damp
east winds & cloudy weather
not half a dozen hot days altogether.
Friday & Saturday last were reasonably
warm, but yesterday the "cold rain"
reached us from the Northwest and it is
cloudy again. Hoping that you may come down from
the heights of my & rejoice once more, I am, very truly,
Yours, George Engelmann

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Recd (by Canon City) Oct 1st
by same day

BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS. Sept. 24th 1887

Dear Dr. Engelmann

I do not
know that you are at home
yet and sent this to Colorado
at a venture.

What do you say to the enclosed
as a new *Sarcodes*. — the volume
carrying the sporocarp in the
fashion of *S. Nuttallii*, but the
light ash-colored macrospores nearly
as small as those of *S. melanopoda*
and even smoother.

Nothing recent from Dr. Gray
& no news yet from Prof. Goodale.

With best wishes

Yours very truly

Mrs. Watson

Is your *S. Bolanderi* the "*S. Californica*"
referred to in the Manual (1867)?



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec Dec 30
ans Jan 3

BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS.

Dec. 27th 1881

Dear Dr. Engelmann,

I do not
remember and find no
specimens of a *Stellaria*
from Colorado like *S. crispa*.
It is not rare from
Arizona.

I enclose bits of
Pinus ponderosa from
several western localities.

I looked into the California
Cypresses when there a year
ago & satisfied myself pretty
well regarding those between
Monterey & Clear Lake &
Russian River. Those further
south I am less certain
about. The genus is very
difficult to work there.



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Dec 27 '81

There was nothing more
absurd than Greene's
proposing a new species,
when he knows nothing
about it any way.
I have done nothing with
them better than the
Botany of California.
The nomenclature there
is essentially correct, re-
ferring to *C. boottianum* the
Cypripedium boottianum form
(which locality I visited), but
the description should
be modified somewhat.

Yours very truly

Robert W. Brown



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec Jan 20
Am 4 4

BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS.

Jan 17th 1882

Dear Dr. Engelman,

In looking
over my coniferous scraps
again I find the unknown
placed among the "Abies
subalpina?" Now it is
not that at all - but is either
your *A. grandis* or *A. sand-*
wich - I do not care which.
Please look on it once
more and see if you
cannot decide.

If it is necessary to know
where it came from - it is
from the west side of the Bitter-
root mountains, ~~but~~ on the
eastern border of Idaho, in the
Clearwater region. All the "*A.*
grandis" that I saw is exactly
described in what you say



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

of *A. amabilis* in the last
Bot. Gazette.

Can you spare for me
something of your new
species of *Stellaria* and
Eriogonum?

^{John.}
Dr. Gray left yesterday
evening for Washington, to be
back next Tuesday probably.

Yours very truly
Frederick Watson

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec Jan 27

my

BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS.

Jan 24th 1882

Dear Dr. Engelman,

I think it
will be safe to call the Abies
A. grandis — it certainly
is not A. subalpina. It was
unfortunate that none of
these trees could be found
in fruit, and but rarely
the remains of previous
fruiting.

I enclose what appears
to be the same as your
Shikoria, collected by
Macoun in British Colum-
bia and which I had put
with a query between
S. crispus & humifusus —



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Jan 24 '82

not attempting to make -
much out of my material.
Is not the *Eriogonum*
an undeveloped *E. lobbiai*?
I should think so, decidedly.

The coldest morning of the
winter so far - morning - 14°.

Dr. Gray was to have been
home this evening. He stopped
in N. York yesterday, and
had an appointment with
the Columbia College authorities
and those of the Central Park
Museum to see if some
arrangement could not be
made for the care of the
Torrey Herbarium. The Museum
people are ready to take charge
of it and do well by it.

Yours very truly

Frederick Watson

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Cambridge, Jan 27/
1892

Dear Dr. Engelman

I send your "Polys.
Hyman". I have been
in one of the same things, trying to
find out the difference between
the two & the information
is shown & sent you it.

Yours very truly
Percy B. Smith



0

1

2

3

4

5

6

7

8

9

10

cm

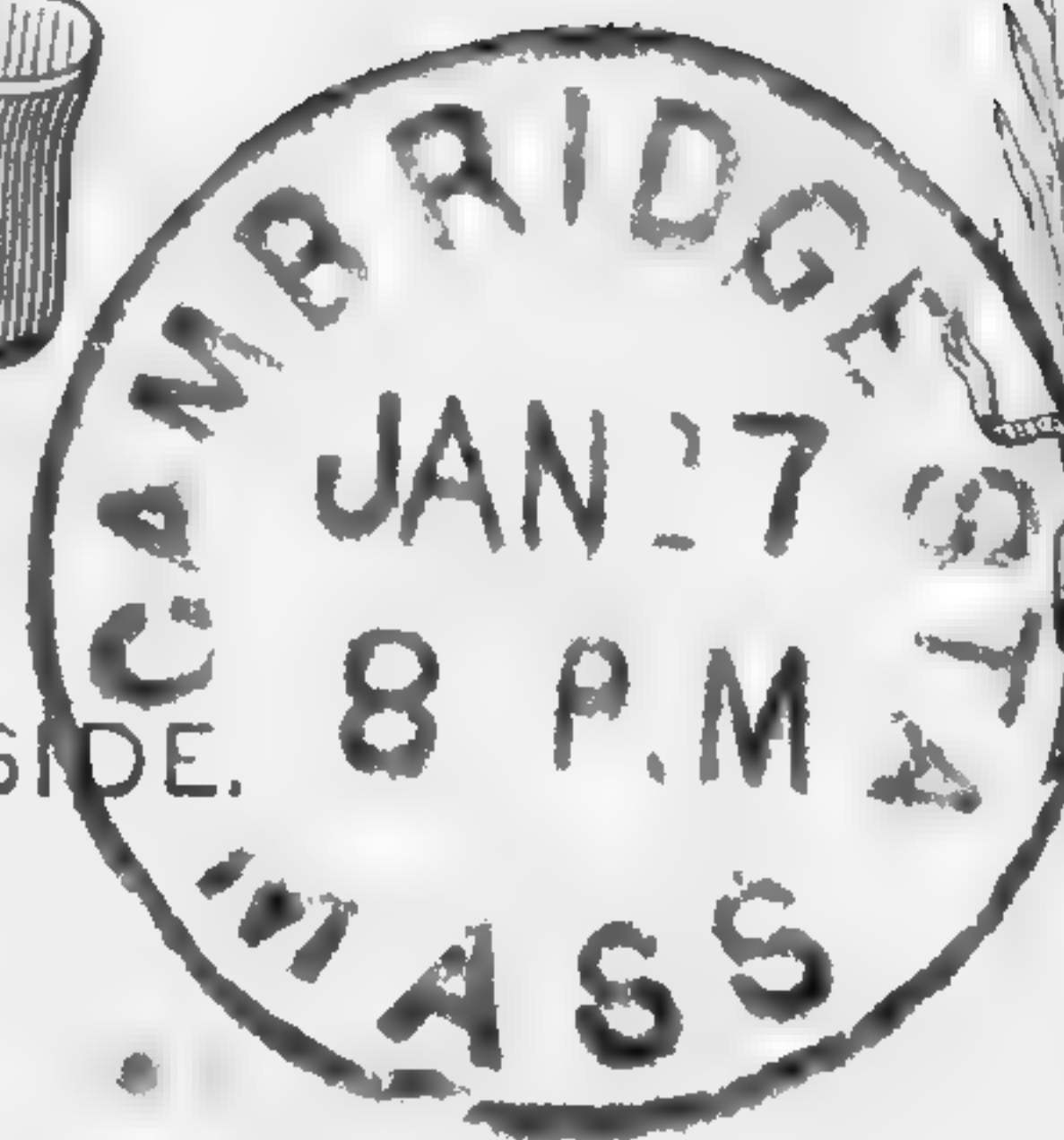
copyright reserved



MISSOURI
BOTANICAL
GARDEN



NOTHING BUT THE ADDRESS CAN BE PLACED ON THIS SIDE.



Engelmann
3003 Locust Street
Saint Louis
Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec March 30
Ans April 11

1852

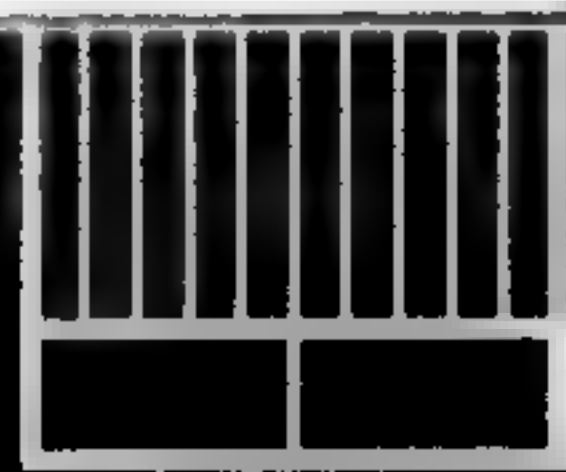
BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS. Mar. 26th 1852

Dear Dr. Engelman,

Can you
name this *Araucarioxylum*
which I found growing
upon the bark in North
western Louisiana? I do
not know that any species
has been reported as living
on that tree.

Have you any idea of
working up the roses? I had
them in mind and collec-
ted considerable material on
my trip, & can perhaps make
something of them. It is
about time that our species
were revised. Now will you
loan me your stock, or
shall I send you ours?
A large share of our herbarium



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Mar 26 82

specimens have been through
Chapin's hands, but I do
not see that he is likely
even to complete his mono-
graph, nor do I entirely
like all his conclusions.
I do not know of any
one but yourself who
would care to take them
up.

Yours very truly
Frederick Watson

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Dec May 8

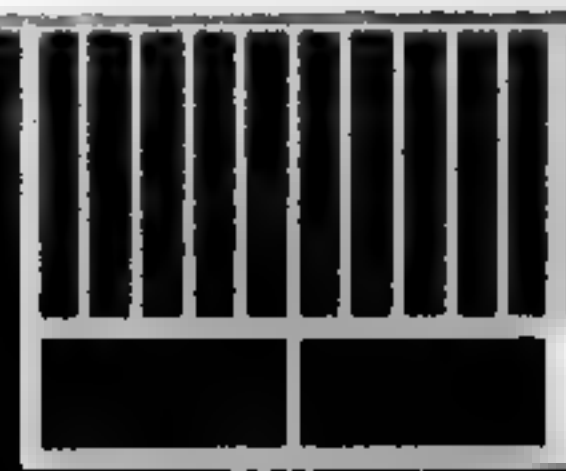
BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS. May 4th 1842

Dear Dr. Engelman,

In Brewer's
two books I find no reference
to collected specimens of
Quercus in October, 1860 - but
this note "near the Oregon
line, over the" (Siskiyou) "moun-
tains is much oak Chapparral,
with leaves like *Q. Hindii*.
Q. Hindii is in the valley of Cot-
tonwood creek, with enormous
acorns; stand very large in
comparison with the cups."

Among our Brewer acorns I
find a single box ticketed "Siskiyou
Wb.", without number, and named "Form of
Q. Breweri? (*Q. lobata*, var. *pubescens*)". It con-
tains three acorns, of which I send you
one. All are somewhat uneyrindric, one
larger, and one smaller than this one.



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

May 4 '82

I think there must be
that you are in search
of.

As for the Roses I would
be glad to have you send
me yours, though I do not
just know when I shall
find time to go over them. I
am now on Palmer's & other
Mexican Plants, and it is
rather slow progress that I can
make & have my work at all
satisfactory to me.

There is so much to be done!

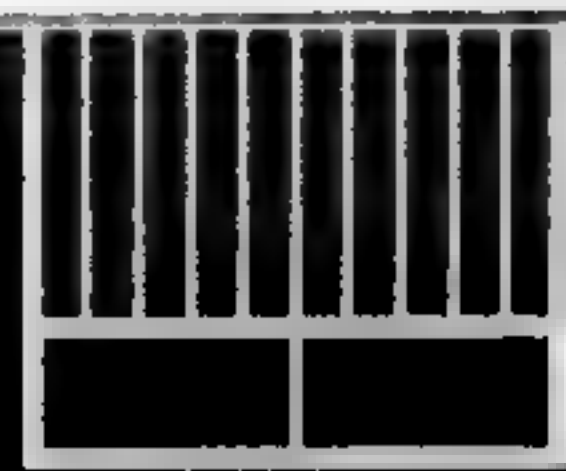
M. E. J. seems to have fallen
out of everybody's good graces.

I am sorry to have you say ^{or think} that I
"have done you wrong" in anything. As
for that Montpelier, if it should stand good,
the harm will be to myself, if any - not
to you. With our specimens I do not see
how I could have done otherwise.

Yours very truly

Ernest Watson

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec June 3^d
at 6

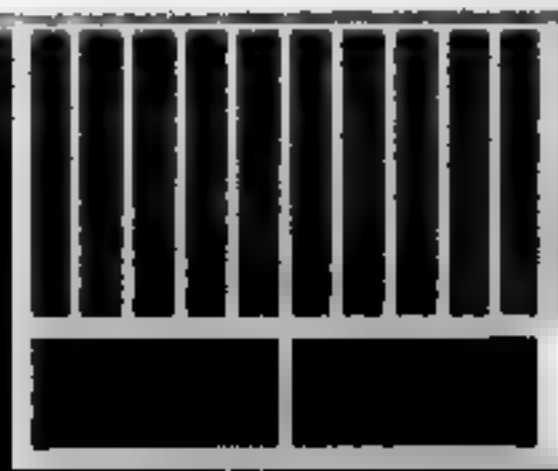
BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS.

May 31st 1882

Dear Dr. Engelman,

I hope then
I am not taking an unwar-
ranted liberty in sending you
the Cactaceae of Palmer's Mexican
Collection for determination,
without your previous con-
sent. There are only a couple
of dozens in all, including all
the surplus specimens that
were too few for distribution
in the general sets. I am
preparing a list of his
plants for publication, &
will be very glad if you
will put names to the
unnumbered ones - the rest
are of less consequence, as
I send all that there is of them.
Help yourself to anything



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

May 31 '82

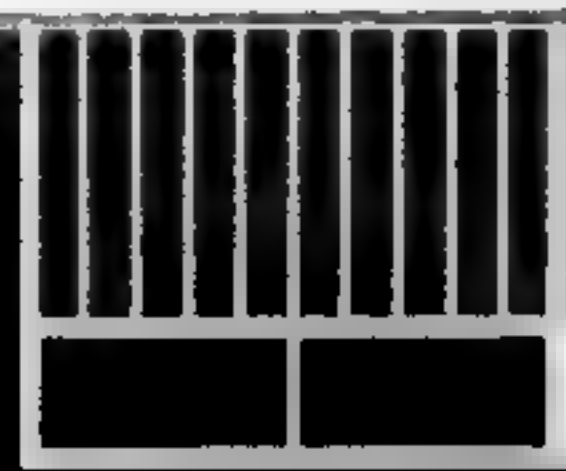
that you want. The bundle
can be returned when your
box comes.

Do not bother with them
if you do not care to
do so.

We are having our first
warm weather and the
trees are coming out rapidly.
Apple & pear trees are just
in bloom.

Yours truly
B. W. Nelson

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Recd Oct 16
Ans - 25

1882

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

1882

Dear Dr. Engelman,

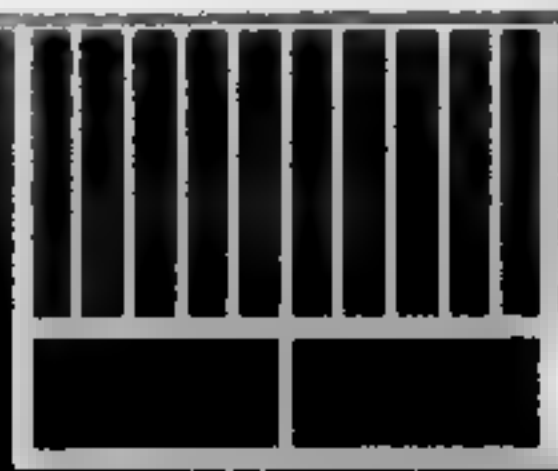
I am just home
from a week in Vermont and N. Hamp.
Spent Monday in a 25 mile tramp
over the summit of Mt. Washington
alone - a glorious day.

I have sorted out the roses
for Cressin, as you requested,
and sent them to him by mail.
I also enclose you the descrip-
tion of *Pinus latiramea*. There
is no need of digitizing for the
rest of my paper. Hemsley is now
on the *Apicalia* of Mex. Flora.

Dr. Gooden is back and hard at
work again. Yrs. very truly

Frederick Watson

(over)



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Oct 11 '82

P. S.

Have you sent or will you
send notice of the agaric Victoria-regina
to ~~Ward~~ for the Gard. Chron.

There is a set of the photographs

for the ~~Chron.~~

from a work in the ~~Chron.~~

Missouri Botanical Garden
GEORGE ENGELMANN PAPERS

from the ~~Chron.~~

from the ~~Chron.~~

from the ~~Chron.~~

from the ~~Chron.~~

from the ~~Chron.~~

from the ~~Chron.~~

from the ~~Chron.~~

from the ~~Chron.~~



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec Jan 2^d
As - 13

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Dec. 29th 1882

Dear Dr. Engelman -

A happy
New Year to you. And as you
are fond of cuscuthas I send
a couple as my new year gift.
Is not one your *C. odontolepis*,
and is not Schaffner right in
calling the other a nov. sp.?

We have no specimen of your
C. nitratiformis that Palmer collected
in his former Mexican expedition.

631 ~~Palmer~~ & Palmer, growing on *Schinus molle*,
must be *C. tinctoria*, though distributed
as *C. Xalapensis* - judging from descriptions.
We have no specimens of either. Yrs. very truly
Sven H. Watson



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Dec 22 1882

Dear Sir,
I have the pleasure to inform you that the
specimens of *Asplenium platyneuron* which you
sent me from the mountains of New York are
exactly as I expected them to be. They are
very fine and I am very much pleased with
them. I am sure they will be of great
value to you. I am, Sir, very respectfully,
Yours,
G. Engelmann

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

C. Wright
in his paper on the
1881 Journal of Botany, Vol. 1, p. 100
mentions *A. platyneuron* as being
found in the mountains of New York
as C. Wright mentions - finding them abundant
in the mountains of New York



0 1 2 3 4 5 6 7 8 9 10
cm copyright reserved



MISSOURI
BOTANICAL
GARDEN

Dec Jan 5 1883

Jan - 13

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Jan 25 1883

Dear Dr. Engelm.,

Your package
to Dr. Gray has not come
yet & he awaits its arrival
before writing you.

I think you are right about
the little *Opuntia*. I had noted
the dissimilarity in Reichenow's
specimens & the *Opuntia* of
your form with 244 Hall.
Humboldt has nothing about it
— and our only specimen of
Gray's is *A. graveolens*.

I do not much like your
name, as the labels are no
more ^{characteristic} ~~approach~~ the leaves (in
fact terminal) than they are often
are in *A. graveolens*.



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

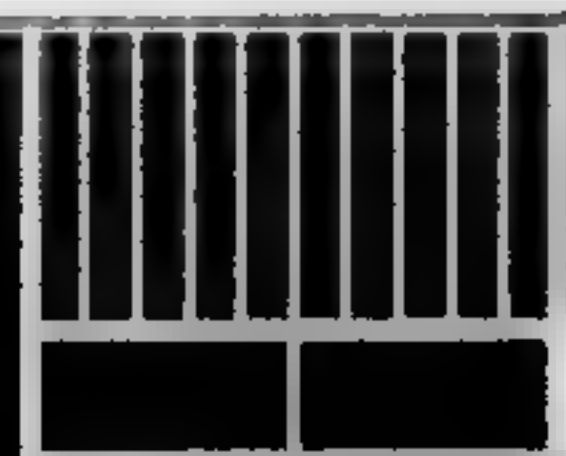
Our only specimens of
it are Hall's (244), Butler's (from
you), and Kewchonia.

Prof. Sargent is happy over
the consummation of
the proposed arrangement
between the City of Boston
and the College respecting
the Arboretum.

I sent you a couple
of cucumbers the other
day, for which I hope
to hear.

Yrs. Very truly
Frederick Watson

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Jan 16th 1883

Dear Dr. Engelman,

We have Lind-
heimer's plant from Galveston,
named Opuntia leptophylla, &
I should say without any
doubt correctly — an unde-
veloped form of it, just like
Drummond's from N. Orleans,
one of Hall's from Texas, Pol-
ak's & Schaffner's from Mex-
ico, &c. We have a specimen
of Nuttall's from St. Louis.

I would be very glad to have
your description of Cuscuta Holroydii
(English), as it would certainly be
better & more authoritative than
my own.

I have considered you further



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

to be a young shrub of
Rumex hymenosepalus, Torr.,
which is a common species all
through that region and used
for tanning.

Dr. Mrs. Gray started yesterday
for Washington, having a very
pleasant day for commencing
the trip, though it is threatening
snow again this morning.

He has been much out of sorts
of late with a bad catarrh, &
Mrs. Gray thinks that his accident
has affected him more than he
has been willing to admit. I
hope that this little vacation
may do him good. He has been
working hard & aheadily as his
compositae.

Yrs. Very Truly

Asa Gray

I enclose a package from
you for Dr. Gray. It will be forwarded.



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Rec May 5th

4-7

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

May 1st 1883

Dear Dr. Engelman,

Cactus was
come to some extent and the-
rably satisfactory and standing
as to the species of *Ephedra* from
the Rio Grande region? I have just
been examining them again for
the determination of Palmer's
specimens and I would like to
submit my conclusions to you
In the first place as to Meyer's *E.*
arborescens = 1890 *McLaudier*, the specimens
have, as you know, very little in the way of
positive character to identify them by. They are,
as Meyer describes them, channinake, and ours
have a single pretty well developed anther
— by sacrificing which the question of identity
could probably be settled, for if the authors



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

should prove to be accurate I have probably
been wrong in my opinions. But my study
of all the specimens at hand leaves me more
than ever satisfied that it is the same as the
sprawling climbing fleshy-fruited species of
Texas and Mexico — i. e. the same as 673 Wright,
1881 Wright, and from the Rio Grande by Wright in 1848,
Richter's Ephedra no. 1, 225 Lindheimer, 22 Schaffner,
885 Perry & Palmer — and now 1289, 1290 & 1291
Palmer, and Schaffner (no number.) Berlandier's
specimens do not show the sprawling character,
but as much as some of Palmer's, and they
are on the whole rather more slender and smoother
than in the other species. There are no scales
on the nodes to help either way. But the one
solitary ament corresponds in form and
size, as it does not with that of *E. Nevadaensis*.
His specimens again were collected
"prope Rio Rio entre Arredos et Bryan", i. e. in
McMullen County or thereabouts — and I have
seen no typical *E. Nevadaensis* specimens of
the Rio Grande or even from New Mexico.

But for the solitary ament, and the form of it,
I would advise that Berlandier's species might
be with as much probability what I am now
going to refer to.



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

MISSOURI
BOTANICAL
GARDEN

Dec May 5 1883 (2.)

the male aments more usually solitary and
the anthers normally eight,

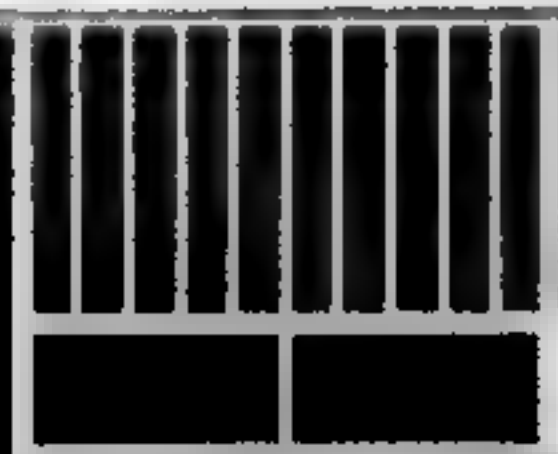
HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

188

The typical *E. Nevadensis*, the form that I
was familiar with in northern Nevada, is
an erect "shubby" bush a couple of feet high, the
young "scals" acuminate or attenuate above
the sheathing base, the ~~first~~ female aments
obovate-pedunculate, 2-fruited (perhaps very rarely
1-fruited), and their bracts acutish. It ranges
into Utah, Arizona, and Southern California.

Now I think that the southeastern form
that has been also placed in *E. Nevadensis*
can be distinguished from it with tolerable
clearness by the following characters. Young
scals with short blunt tips, male aments
usually clustered, with rounded bracts and anthers
ordinarily four (2-6), female aments sessile
or short-pedunculate, with rounded bracts and
always solitary fruit. Of this we have 53 Gregg,
Bigelow's *Ephedra* n. 2, 273 Wright (1882), 1882 Wright, 273
and 424 Lindheimer, G. R. Vasey (El Paso), 247 Lemmon
(Organ Mts., Texas), 252 Lemmon (near Phoenix, Arizona),
249 & 251 Parry (S. Utah, etc.), 1292 Palmer (Wilcox Co., Texas),
and 1245 Palmer (Mts. south of Saltillo).



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

The anthers in both are sessile, the
upper ends of the connective filaments now
being free as in the first species.

Perhaps this is "*E. occidentalis*, Torrey;
see Parlatore's description, DC. Prodr. 16: 354.
The only other clue then I have found to this
species is "*Ephedra occid.*" in your writing upon
the ticket to 273 Lindeheimer. Did not the name
get to the Berlin herb. through you, and is it
not yours rather than Torrey's? It is
not particularly appropriate, but if it
certainly belongs to this form I
would rather adopt it than to
have a new one made.

The branching in this species ap-
pear to be usually more scabrous
than in either of the other species.

Now, my dear doctor, will you
please tell me what you think
of all this and what you think
ought to be done. I will agree
to almost anything that you
say to be right or satisfactory.

Dr. Gray is home from Washington
- Mrs. Gray with a very bad cold, and says
I must say truly, good, 25 & 26
I added to some of these *Phacelia* *Phacelia*



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

MISSOURI
BOTANICAL
GARDEN

Rec May 19
Am — 24

BOTANIC GARDEN, CAMBRIDGE, MASS.

May 16/13

Dear Dr. Engelman,

I have just
been looking at *Ephedra* again
with the help of your notes.
I have dissected the one spike
on Beaudin's specimens and
find that the flowers have 4-5 sessile
anthers — and so I have no hesi-
tation in adopting your *E. pedunculata*,
and in considering the other
common N. Texan species as
E. antisyphilitica. As for *E. aspera*,
I had not carefully examined the few
fruit on Gray's specimen (Palmer's are
all staminate), but I now find that
they have some characters which
will serve to distinguish it, and I
will take that up also. As for the
other species I suspect that
you are right regarding *oxyca*

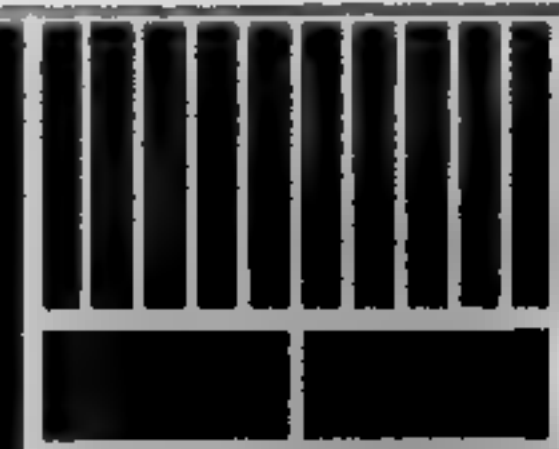


0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

and perhaps the rest. But I have no occasion to say anything about them, and more material will make matters plainer.

In looking over Palmer's Agaves I find one that troubles me. Besides his specimens there are two plants growing in the greenhouse. It is remarkable for the very rough leaf, which is narrow ($2^{\circ} \times 3.4'$), attenuate into a very long and slender scarcely decurrent spine (2-3 inches ^{+ rough at base} long,) and with large marginal spines 5-6 lines long, mostly reflexed. The flowers & fruit are much after the fashion of *A. Americana*. Can you tell whether it can be Jacob's *A. asperina*, whose description we do not have, but which Baker refers to *A. salmiana*?

Our spring is backward - no warm weather yet.

Yours very truly
Fernald Watson



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

[Faint, mostly illegible handwritten text, likely bleed-through from the reverse side of the page.]

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Oko May 31st

BOTANIC GARDEN OF HARVARD UNIVERSITY,

CAMBRIDGE, MASS. May 28th 1883

Dear Dr. Engelman,

I can get
no trace of any "DC. Diss. 1826."
Except that in Prodr., under *Mulocactus*
communis, DC. cites "DC. Diss. t. 6", and
under *Echinocactus cornigerus*, "DC.
Diss. t. 7". Now these are the numbers
of the corresponding plates in the "Revue
Fam. Cact.", which first appeared in Mem.
Mus. Hist. Nat. Paris, xvii (1826). Inas-
much as he credits the first of these
species (as well as others) to Link & Otto,
I conjecture that the date "1826" is
purely a slip, and that by the "Diss."
the "Revue" is meant.

Yours very truly

Brewster



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN